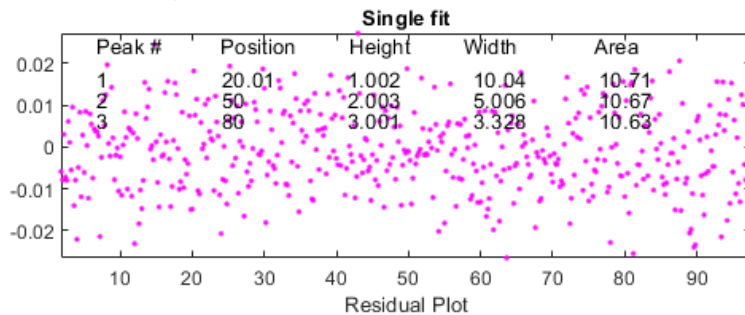
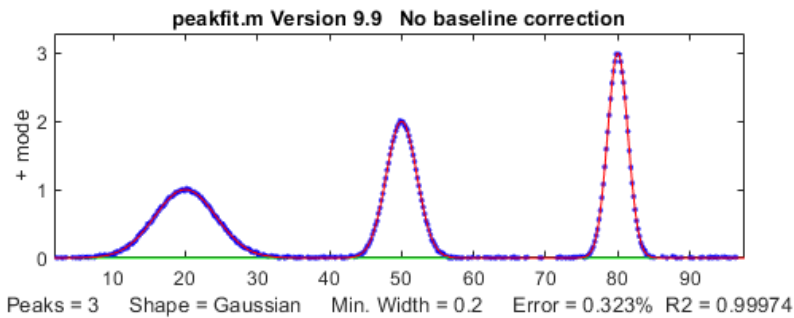
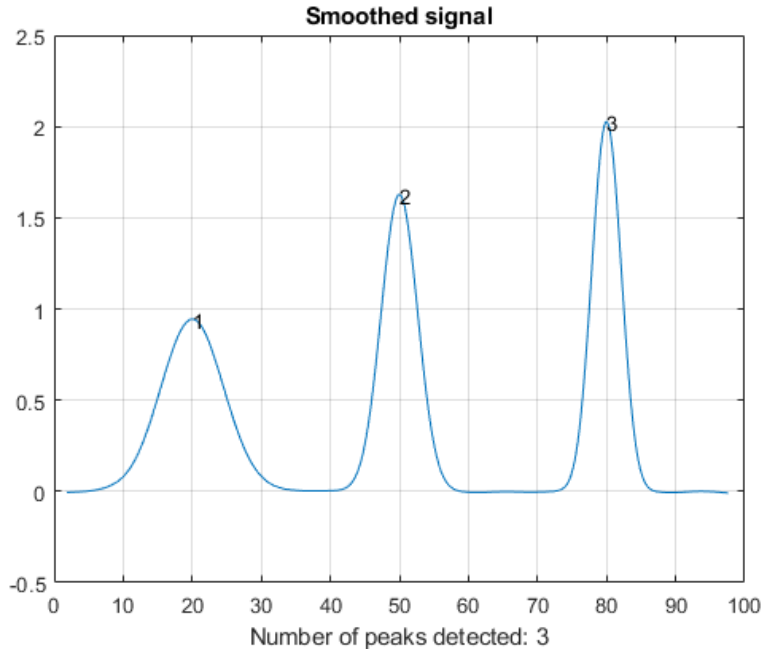


[PeakDetection.mlx](#) test data sets: all with 3 peaks with heights 1, 2, 3, equal areas (10.645).
 Peak detector positions and widths used as first-guess starting point for curve fitting.

[equalareas.csv](#): Check for accuracy with easy case. Peaks Gaussian, well separated, little noise

Peak detector: AutoPeaks

Peak	Position	Peak-valley	Perp drop	Tan skim
1.0000	20.0000	0.9784	10.6442	10.6427
2.0000	50.0000	1.8397	10.6447	10.6437
3.0000	79.9998	2.5185	10.6447	10.6444



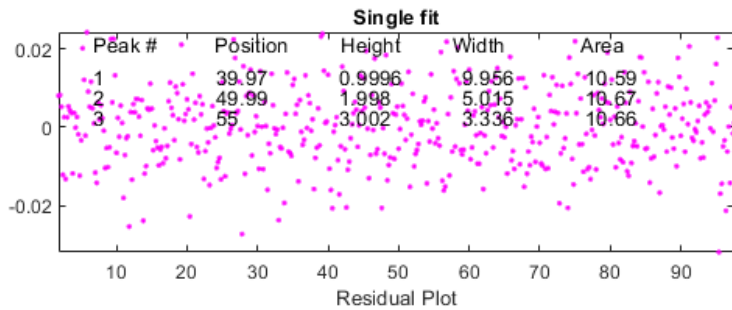
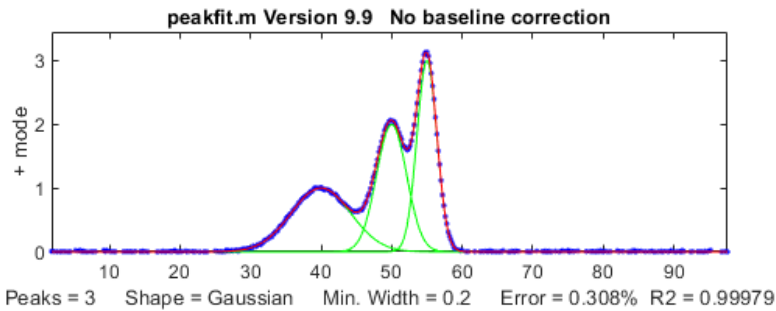
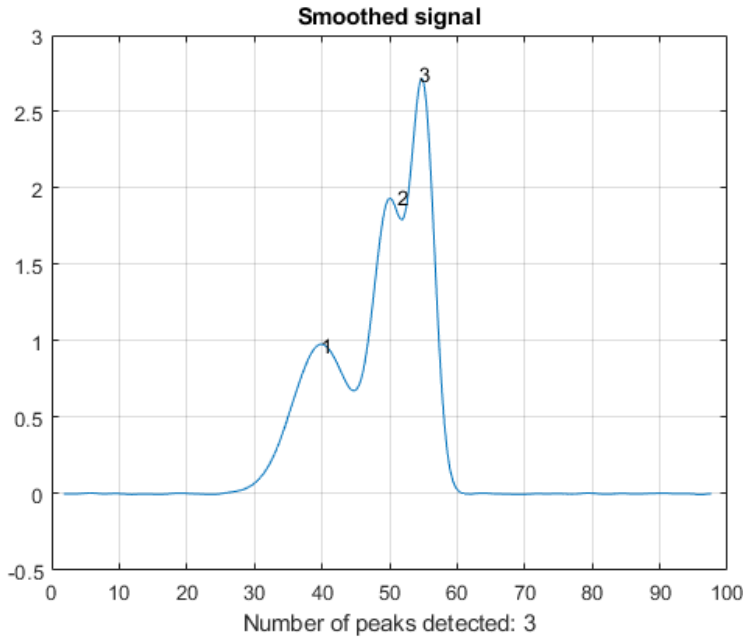
PeakShape=Gaussian Fitting error=0.32266% R2= 0.99974

peak #	Position	Height	Width	Area
1	20.005	1.0016	10.041	10.705
2	50.004	2.0029	5.0065	10.674
3	79.999	3.0013	3.3278	10.632

ThreePeakOverlap.csv: Peaks Gaussian, highly overlapped, very little noise

Peak detector: PeaksAboveThreshold

peak #	Position	Height	Width	Area
1.0000	39.9729	0.9765	10.4374	10.8505
2.0000	51.2645	1.9512	10.1134	21.0075
3.0000	54.4150	2.7585	4.8471	14.2342



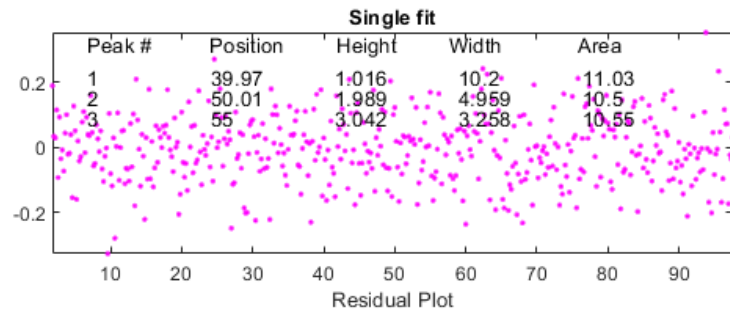
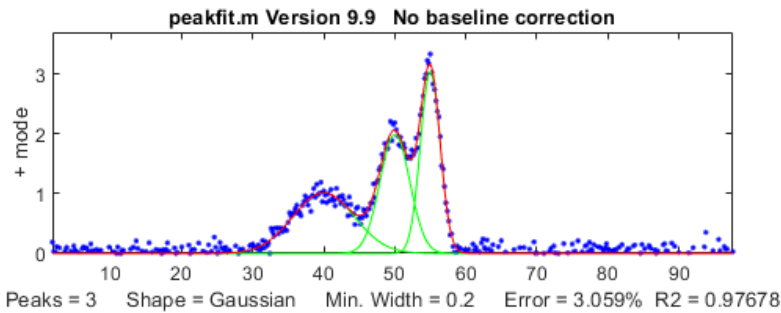
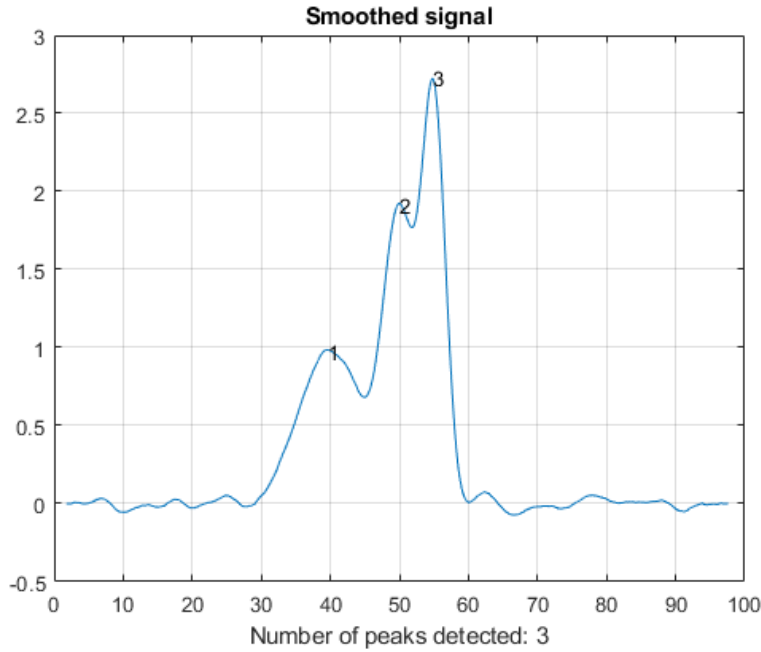
PeakShape=Gaussian Fitting error=0.30797% R2= 0.99979

peak #	Position	Height	Width	Area
1.0000	39.9661	0.9996	9.9561	10.5933
2.0000	49.9901	1.9983	5.0153	10.6680
3.0000	54.9986	3.0019	3.3359	10.6594

ThreePeakOverlapNoisy.csv: Peaks Gaussian, highly overlapped, x10 noise

Peak detector: PeaksAboveThreshold

peak #	Position	Height	Width	Area
1.0000	39.6605	0.9831	11.4306	11.9631
2.0000	50.0965	1.9147	7.9974	16.3017
3.0000	54.7605	2.7312	4.3836	12.7460



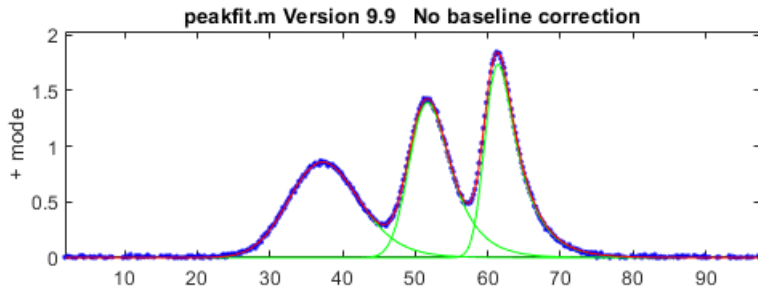
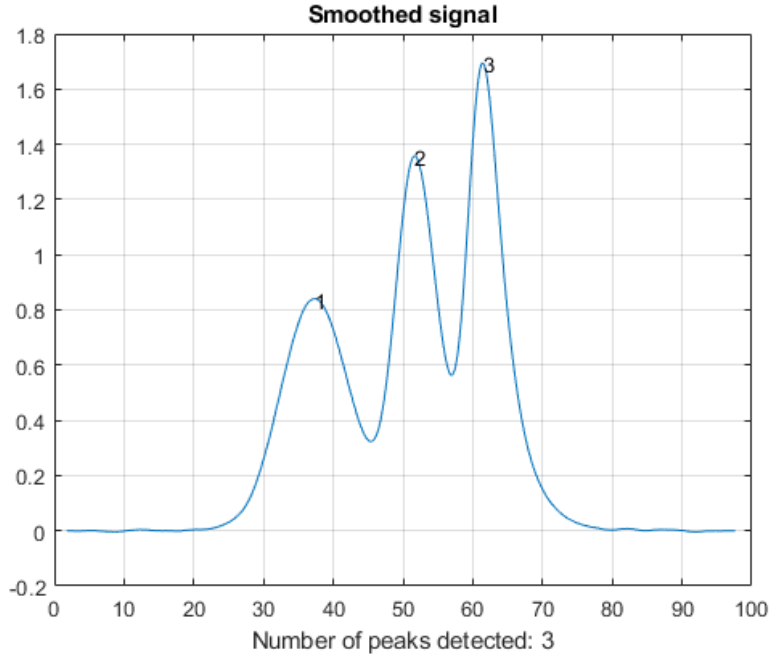
PeakShape=Gaussian Fitting error=3.0587% R2= 0.97678

peak #	Position	Height	Width	Area
1.0000	39.9720	1.0159	10.2041	11.0346
2.0000	50.0109	1.9890	4.9588	10.4989
3.0000	55.0029	3.0420	3.2579	10.5493

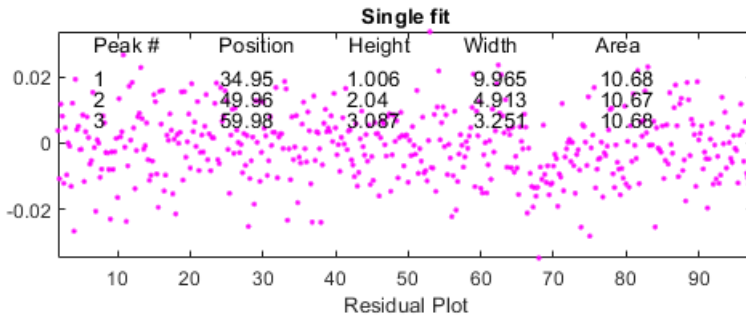
[threeEMGoverlap.csv](#): Peaks exponentially-broadened Gaussian, highly overlapped, little noise

Peak detector: PeaksAboveThreshold

peak #	Position	Height	Width	Area
1.0000	37.2966	0.8401	11.9708	10.7067
2.0000	51.7048	1.3574	7.1696	10.3606
3.0000	61.4408	1.6927	5.8351	10.5150



: 3 Shape = ExpGaussian Min. Width = 0.2 Time Constant = 15.5 Error = 0.553% R2



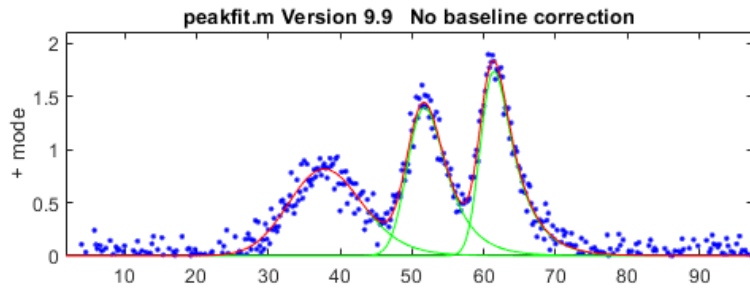
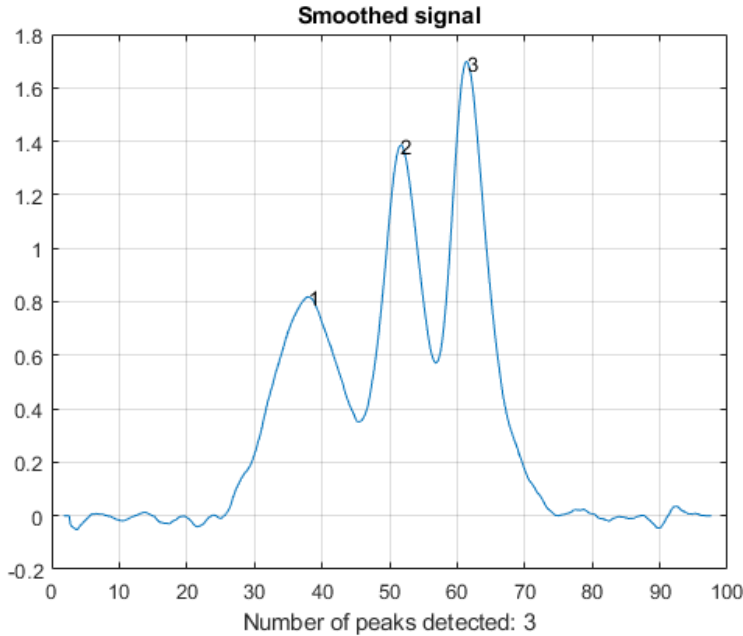
PeakShape=Exp. broadened Gaussian Fitting error=0.55273% R2= 0.99951

peak #	Position	Height	Width	Area
1.0000	34.9459	1.0064	9.9654	10.6754
2.0000	49.9604	2.0398	4.9133	10.6686
3.0000	59.9762	3.0872	3.2508	10.6827

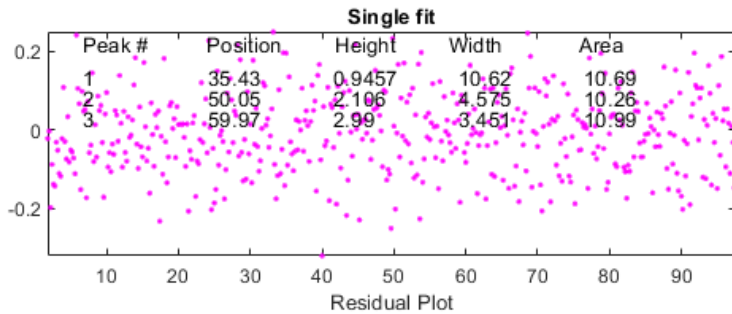
[threeEMGoverlap2.csv](#): Peaks exponentially-broadened Gaussian, highly overlapped, x10 noise

Peak detector: PeaksAboveThreshold

peak #	Position	Height	Width	Area
1.0000	37.9556	0.8181	9.4550	8.2348
2.0000	51.6973	1.3839	6.5445	9.6418
3.0000	61.4276	1.6969	6.0219	10.8787



: 3 Shape = ExpGaussian Min. Width = 0.2 Time Constant = 15.4 Error = 5.246% R2



PeakShape=Exp. broadened Gaussian Fitting error=5.2461% R2= 0.95613

peak #	Position	Height	Width	Area
1.0000	35.4276	0.9457	10.6157	10.6861
2.0000	50.0539	2.1062	4.5752	10.2577
3.0000	59.9721	2.9905	3.4511	10.9856